

AMENDMENTS TO THE SPECIFICATION

Please amend the specification as shown below.

Please insert the following on page 1 before the priority paragraph:

SEQUENCE LISTING

[0000] The instant application contains a Sequence Listing which has been submitted in ASCII format via EFS-Web and is hereby incorporated by reference in its entirety. Said ASCII copy, created on December 29, 2011, is named 110313US.txt and is 25 kilobytes in size.

Please amend the paragraph [0028] on page 8 to include SEQ ID NOs, as shown below:

[0028] Figure 1 shows the primary structure of mouse CatSper1. (a) Amino acid sequence (SEQ ID NO: 4): the 6 putative transmembrane domains (S1-S6) and the pore (P) region are boxed. The positively charged residues (K/R) in the S4 region are shown in bold. (b) Hydropathy plot of CatSper1 predicts 6 transmembrane domains (1-6) and a P loop (P). Window size = 11. (c) Alignment of the putative pore region of CatSper1 with that of the four domains (I, II, III, IV) from Cav1-3. GenBank accession numbers: X15539 (Cav1.2) (SEQ ID NOs 8, 11, 14 and 17, respectively, in order of appearance), M94172 (Cav2.2) (SEQ ID NOs 9, 12, 15 and 18, respectively, in order of appearance), 054898 (Cav3.1) (SEQ ID NOs 10, 13, 16 and 19, respectively, in order of appearance), AF407332 (mouse CatSper1) (SEQ ID NO: 7), and AF407333 (human CatSper1) (SEQ ID NO: 20).